



# Varnish Potential Analysis

**HIGH**

XYZ Corporation  
5134 Your Address  
City, State ZIP

Unit No: 102  
Description: Steam Turbine Oil Capacity: 3000 gallons  
Customer No: 41025624

Date Samples :			12/09/08	02/02/08	07/24/07	01/11/07
Date Tested :			12/11/08	02/05/08	07/26/07	01/13/07
Time Unit/Oil :			11250 H	9250	6150	2950
Lab No :			52870	2868	34331	330
Varnish Potential Rating			HIGH	MODERATE	LOW	LOW
TEST	METHOD	UNITS	TEST RESULTS			
Blotter Test	ASTM D4740 M	Ref. No.	No. 4	No. 3	No. 1	No.2
Color	ASTM 1500	ASTM	5.0	3.5	1.0	0.5
Ultracentrifuge Sediment Rating	Ultracentrifuge	UC Rating	4	2	1	2
Varnish Potential Pentane Insolubles	ASTM D4055 M	mg/L	180	55	12	65
Membrane Patch Colorimetry		Lovibonds	12	8	1	1
RUL %	D6971/D6810	%	18	35	65	83
RULER Phenolic	D6971/D6810	%	15	30	50	70
RULER Amine	D6971	%	0	10	18	22
Particle Count >4um	ISO 11500	Part./ml	877	712	696	21654
Particle Count >6um	ISO 11500	Part./ml	175	215	150	11533
Particle Count >14um	ISO 11500	Part./ml	40	28	33	1450
Particle Count >23um	ISO 11500	Part./ml	8	6	7	310
Particle Count >50um	ISO 11500	Part./ml	0	0	0	12
ISO Cleanliness Code	ISO 4406		20/18/12	17/15/12	17/14/12	22/21/18
<b>Lab No:</b>	<b>Brand/Type Oil</b>		<b>Results Interpretation:</b>			
52870	R&O / Steam Turbine Oil VG 32		Test Results indicate an increased level of oil degradation materials indicating HIGH varnish potential for the sample submitted. Level of antioxidants in oil is low. This situation requires corrective action taken. Recommend electrostatic purification or change out of in service oil. Recommend inspect mechanical components for varnish buildup at first practical opportunity. (Analyst DXD) (12/11/08):			

